PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY From the

MINOJA, Fabrizio et al. Bianchetti Bracco Minoja S.r.l.

Via Plinio, 63 1-20129 Milano **ITALIE**

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BIANCHETTI-BRACCO-MINGJA S.F.

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing (day/month/year)

29.08.2006

Applicant's or agent's file reference

SCB 908 PCT

international filing date (day/month/year)

Priority date (day/month/year) 26,03,2004

International application No. PCT/EP2005/003186

24.03.2005

Applicant

CELL THERAPEUTICS EUROPE S.R.L. et al.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer

Morancho Alcaine, N

Tel. +49 89 2399-7462



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

International application No. PCTEP2005/003186	5)						
Applicant CELL THERAPEUTICS EUROPE S.R.L. et al. 1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 5 sheets, including this cover sheet. ☑ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which been amended and are the basis for this report and/or sheets containing rectifications made before this Auti (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 3 sheets. 3. This report contains indications relating to the following items: □ □ Basis of the opinion □ □ Priority □ □ Basis of the opinion with regard to novelty, inventive step and industrial applicability □ □ Lack of unity of invention □ □ Priority □ □ Lack of unity of invention □ □ Priority □ □ Certain developments cited □ □ Certain defects in the international application □ □ Certain observations on the international application							
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Date of submission of the demand Date of completion of this report							
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25.01.2006 29.08.2006							
Name and mailing address of the international preliminary examining authority: Authorized Officer	Palmaran,						
——— European Patent Office	M_{i}						
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d							
Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399-7852	Salan . Salan						

10/594003 IAP9 Rec'd PCT/PTO 25 SEP 2006

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. Basis of the report

International application No.

PCT/EP2005/003186

1.	the	receiving Office in re	ints of the international application (Heplacement Sheets Which have been furnished sponse to an invitation under Article 14 are referred to in this report as "originally filed his report since they do not contain amendments (Rules 70.16 and 70.17)):	το 1"							
	Des	scription, Pages									
	1-1	1 .	as originally filed								
	Cla	ims, Numbers									
	1-6		as originally filed								
	Cla	ims, Pages									
	1-6		filed with telefax on 25.01.2006								
2.	Witl lang	n regard to the lang u guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.	е							
	The	These elements were available or furnished to this Authority in the following language: , which is:									
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).									
		the language of publication of the international application (under Rule 48.3(b)).									
		the language of a tra- Rule 55.2 and/or 55.	Instation furnished for the purposes of international preliminary examination (under 3).								
3.	Witl inte	h regard to any nucle rnational preliminary	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:								
		contained in the inte	rnational application in written form.								
		filed together with the international application in computer readable form.									
		furnished subsequently to this Authority in written form.									
		furnished subsequently to this Authority in computer readable form.									
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.	•							
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.									
4.	The	amendments have r	esulted in the cancellation of:								
		the description,	pages:								
		the claims,	Nos.:								
		the drawings,	sheets:								

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2005/003186

5.		This report has been establish been considered to go beyond	ed as i the di	if (some of) sclosure as	the am filed (F	endment Rule 70.2	s had r (c)).	not been	made	e, since tl	hey have	
	٠	(Any replacement sheet conta report.)	ining s	uch amend	ments i	must be r	eferred	i to unde	er item	1 and a	nnexed to	this
6.	Add	itional observations, if necessa	ry:									
III.	Nor	n-establishment of opinion wi	th reg	ard to nov	elty, in	ventive s	step an	d indus	strial a	applicabi	ility	
1.	The	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:										
		the entire international applica			. **							
	\boxtimes	⊠ claims Nos. 6										
		because:			·						•	
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):										
	.0	the description, claims or draw that no meaningful opinion cou	ings (i uld be	indicate par formed (spe	ticular (ecify):	elements	below)	or said	claim	s Nos. ar	e so uncle	∍ar
		the claims, or said claims Nos could be formed.	. are s	o inadequat	ely sup	ported by	y the d	escriptio	n that	no mean	ningful opi	nion
	\boxtimes	no international search report	has be	en establis	hed for	the said	claims	Nos. 6				
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative instructions:										
		the written form has not been furnished or does not comply with the Standard.										
		the computer readable form has not been furnished or does not comply with the Standard.										
٧.	Rea	asoned statement under Artic ations and explanations supp	le 35() orting	2) with reg such state	ard to ement	novelty,	invent	ive step	or in	dustrial a	applicabi	lity;
1.	Sta	tement							•	,		
,	Nov	velty (N)	Yes: No:	Claims Claims	1-5							
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-5							
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-5							
2.	Cita	ations and explanations			1.							. *
	see	separate sheet				•						

Form PCT/PEA/409 (January 2004)



INTERNATIONAL PRELIMINARY International application No. PCT/EP2005/003186 EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: WO 93/05768 A (MEDAC GESELLSCHAFT FUER KLINISCHE SPEZIALPRAEPARATE) 1 April 1993 (1993-04-01)
- D2: WO 94/20072 A (PHARMACIA AB; WESTESEN, KIRSTEN; SIEKMANN, BRITTA) 15 September 1994 (1994-09-15)
- D3: M.A. EGEA, M.A. ALSINA, M. ESPINA, O.VALLS, M.L. GARCIA: "Penetration kinetics of cis-diamminedichloroplatinum II loaded nanoparticles in lipid monolayers as a membrane model of the reticuloendothelial system" THIN SOLID FILMS, vol. 210/211, 1992, XP002340125 Sequoia
- D4: US-B1-6 596 889 (MENTA ERNESTO ET AL) 22 July 2003 (2003-07-22)
- D5: US-A-6 011 166 (VALSECCHI ET AL) 4 January 2000 (2000-01-04)
- D6: US 520 236 A (M.R. GASCO) 5 October 1993 (1993-10-05)

The present application discloses solid lipid nanoparticles (SLN) of platinum compounds characterized by anionic ligands and ligands containing amino groups and a method of production of said SLN's.

Claim 6 relates to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of this claim (Article 34(4)(a)(I) PCT).

1. Novelty

The present application does meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5 is new in the sense of Article 33(2) PCT.

None of the cited documents **D1-D6** discloses (citations see ISR) solid lipid nanoparticles characterized by anionic ligands and ligands containing amino groups further containing platinum compounds, more particularly of antitumour platinum complexes.

Form PCT/Separate Sheet/409 (Sheet 1) (EPO-April 1997)

Therefore, the subject-matter of the present claims 1-5 is novel over the prior art.

2. Inventive step

The present application does meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-5 does involve an inventive step in the sense of Article 33(3) PCT.

The problem to be solved by the present invention may therefore be regarded as finding a way to prepare SLN's characterized by anionic ligands and ligands containing amino groups containing platinum compounds. None of the cited documents suggest the preparation of such SLN's characterized by anionic ligands and ligands containing amino groups with platinum compounds.

Therefore, the subject-matter of the present claims 1-5 involves an inventive step.

3. Industrial applicability

For the assessment of the present claim 6 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Present claims 1-5 are industrial applicable.

10/594003 End 2 IAP9 Rec'd PCT/PTO 25 SEP 2006

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CLAIMS

- Solid Lipid Nanoparticles of a platinum complex characterized by 1. anionic ligands and ligands containing amino groups.
- Solid Lipid Nanoparticles of a platinum complex according to claim 1 5 2. from trans-{bis[trans(diammine)(chloro)platinum hexanediamine)]} diammineplatinum tetranitrate salt of formula I

Formula I

bis {trans(diammine)(chloro)platinum(II)} μ-(1,16-diamino-7,10-diazahexadecane-N1,N16) dinitrate salt. 2HNO3 of formula II,

Formula II

bis {trans(diammine)(chloro)platinum(II)} µ-(1,16-diamino-6,11-diazahexadecane-N1,N16) dinitrate salt. 2HNO3 of formula III,

Formula III

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bis $\{trans(diammine)(chloro)platinum(II)\}$ - μ - $\{1,12-diamino-4,9-diazadodecane-N₁,N₁₂\}$ dinitrate salt. 2HNO₃ of formula IV,

Formula IV

bis $\{trans(diammine)(chloro)platinum (II)\}-\mu-(1,8-diamino-4-azaoctane-N^1,N^8)$ dipitrate salt. HNO3 of formula V,

Formula V

- 3. Solid Lipid Nanoparticles according to claim 1 or 2 obtainable by a process comprising:
 - a) preparing a first microemulsion by mixing a molten lipid, a surfactant, and optionally a co-surfactant and the platinum compound acqueous solution;
 - b) preparing a solution by mixing a surfactant and optionally a
 co-surfactant in water, heating to complete solution, preferably at
 the same melting temperature of the lipid used in a) and adding a
 co-surfactant;
- 20 c) dispersing the microemulsion obtained in a) into the solution obtained in b) obtaining a multiple microemulsion c);

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- d) dispersing the microemulsion obtained in c) in aqueous medium at a temperature ranging from 0.5°C to 4°C obtaining a dispersion of solid lipid microspheres;
- e) washing with aqueous medium through ultrafiltration the obtained lipid microspheres obtained in d) and lyophilizing, optionally in the presence of a bulking agent and of a cryoprotecting agent.
- A process for the preparation of Solid Lipid Nanoparticles of claims 4. 1-2, comprising:
 - a) preparing a first microemulsion by mixing a molten lipid, a surfactant, and optionally a co-surfactant and the platinum compound acqueous solution;
 - b) preparing a solution by mixing a surfactant and optionally a co-surfactant in water, heating to complete solution, preferably at the same melting temperature of the lipid used in a) and adding a co-surfactant;
 - c) dispersing the microemulsion obtained in a) into the solution obtained in b) obtaining a multiple microemulsion c);
 - d) dispersing the microemulsion obtained in c) in aqueous medium at a temperature ranging from 0.5°C to 4°C obtaining a dispersion of solid lipid microspheres;
 - e) washing with aqueous medium through ultrafiltration the obtained lipid microspheres obtained in d) and lyophilizing, optionally in the presence of a bulking agent and of a cryoprotecting agent.
- Pharmaceutical compositions comprising the solid lipid nanoparticles of 5. claims 1-3. 25
 - A method of treating patients affected by cancer sensitive to platinum complexes which comprises administering to said patients a therapeutically effective amount of the solid lipid nanoparticles of claims 1-3.